

AMENDMENTS TO THE CLAIMS

Claims 1-46. (canceled).

47. (currently amended) A method of forming an imager pixel array comprising the steps of:

forming ~~a plurality of~~ at least three photosensors each responsive to a different color of light; and

forming a plurality of charge storage capacitors, each ~~for receiving collected charges from an~~ respectively associated ~~respective with~~ one of said ~~plurality of~~ photosensors, a storage capacity of each said charge storage capacitor corresponding in proportion to a relative electron production capability of ~~an~~ said respectively associated ~~respective~~ photosensor.

48. (currently amended) A method according to claim 47, wherein a portion of said ~~plurality of~~ at least three photosensors is responsive to red ~~colored~~ color light, and said charge storage capacitor respectively associated with each said photosensor of said portion is formed with a storage capacity of between about 0 and about 20 femtofarads.

49. (currently amended) A method according to claim 47, wherein a portion of said ~~plurality of~~ at least three photosensors is responsive to green color light, and said charge storage capacitor respectively associated with each said photosensor of said portion is formed with a storage capacity of between about 2 and about 20 femtofarads.

50. (currently amended) A method according to claim 47, wherein a portion of said ~~plurality of~~ at least three photosensors is responsive to blue color light, and said charge storage capacitor respectively associated with each said photosensor of said portion is formed with a storage capacity of between about 3 and about 20 femtofarads.

51. (previously presented) A method according to claim 47, wherein each said charge storage capacitor is formed as a flat plate capacitor.

52. (previously presented) A method according to claim 47, further comprising forming a plurality of transfer transistors each in electrical communication with a respective one of said plurality of storage capacitors.

53. (currently amended) A method according to claim 47, wherein the step of forming said plurality of charge storage capacitors comprises establishing electrical communication for receiving collected charges directly from said respectively associated a ~~respective one of said plurality of~~ photosensors.

54. (currently presented) A method according to claim 47, wherein the step of forming said plurality of charge storage capacitors comprises establishing electrical communication for receiving collected charges from ~~a respective one of said plurality of~~ respectively associated photosensors through a respective floating diffusion region which receives charges from said respectively associated ~~respective one of said plurality of~~ photosensors.

55. (currently amended) A method of forming an imager pixel array comprising the steps of:

providing a plurality of photosensors comprising at least a first portion responsive to a first color of light, ~~and a second portion responsive to a second color of light, and a third~~ portion responsive to a third color of light; and

forming a plurality of storage capacitors, each in electrical communication with a respective ~~one of photosensor of said first, second, and third portions of said plurality of~~ photosensors, a storage capacity of each said storage capacitor corresponding in proportion with a relative electron production capability of each said respective photosensor, ~~said storage capacity of storage capacitors associated with photosensors of said first portion being different from said storage capacity of storage capacitors associated with photosensors of said second portion.~~

56. (currently amended) A method as in claim 55, wherein the first color is red, a respective storage capacitor in electrical communication with a photosensor of said first portion ~~of photosensors~~ having a storage capacity of between about 0 and about 20 femtofarads.

57. (currently amended) A method as in claim 55, wherein the second color is green, and a respective storage capacitor in electrical communication with a photosensor of said second portion of photosensors having a storage capacity of between about 2 and about 20 femtofarads.

58. (canceled)

59. (currently amended) A method as in claim ~~58~~ 55, wherein said third color of light is blue and a storage capacitor in electrical communication with a photosensor of said third portion has a storage capacity of between about 3 and about 20 femtofarads.

60. (new) A method as in claim 55, wherein the first color is red, a respective storage capacitor in electrical communication with a photosensor of said first portion having a storage capacity of between about 0 and about 20 femtofarads, the second color is green, and a respective storage capacitor in electrical communication with a photosensor of said second portion having a storage capacity of between about 2 and about 20 femtofarads, and said third color of light is blue and a storage capacitor in electrical communication with a photosensor of said third portion has a storage capacity of between about 3 and about 20 femtofarads.

61. (new) A method of forming an imager pixel array comprising the steps of:

forming at least three photosensors each responsive to a different color of light; and

forming a plurality of charge storage capacitors, each respectively associated with one of said photosensors, a storage capacity of each said charge storage capacitor corresponding in proportion to a relative electron production capability of said respectively associated photosensor, wherein a first portion of said at least three photosensors is responsive to red color light, and said charge storage capacitor respectively associated with each said photosensor of said first portion is formed with a storage capacity of between about 0 and about 20 femtofarads, a second portion of said at least three photosensors is responsive to green color light, and said charge storage capacitor respectively associated with each said photosensor of said second portion is formed with a storage capacity of between about 2 and about 20 femtofarads, and a third portion of said at least three photosensors is responsive to blue color light, and said charge storage capacitor respectively associated with each said photosensor of said third portion is formed with a storage capacity of between about 3 and about 20 femtofarads.